

# PATENT ABSTRACTS OF JAPAN

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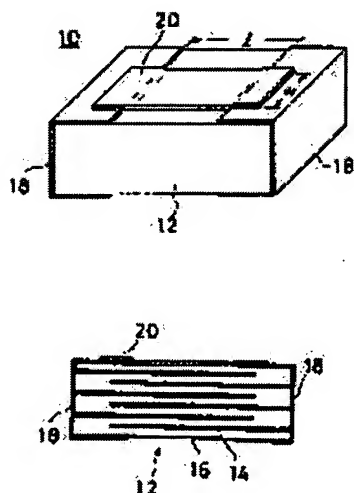
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## (54) LAMINATED THERMISTOR

(57)Abstract:

PURPOSE: To stabilize the resistance temperature characteristics on the side of low temperature, and also to increase the degree of freedom in design of chip size and resistance value by a method wherein a resistance layer, having relatively small thermistor constant, is formed on a resistance layer having a relatively large thermistor constant by a method such as a thick film method

CONSTITUTION: External electrodes 18, having U-shaped section and is conductively connected to internal electrodes 14 respectively, are formed on a resistor layer 12 ranging from both edge faces, where the internal electrodes 14 are exposed alternately, to a part of the upper and the lower main surfaces. A film-like resistor layer 20, which is formed by a printing method, for example, on one main surface of the above-mentioned resistor layer 12, is arranged astriding



over the two external electrodes 18. A resistor layer 12 having a large thermistor constant and a film-like resistor layer 20 having a small thermistor constant are parallel-connected, and their combined resistance temperature coefficient almost form a straight line in a specific temperature range. Accordingly, by adjusting in such a manner that the above-mentioned temperature range is brought to the desired low temperature region, the resistance temperature characteristics on the low temperature side can be stabilized, and the resistance value can be selected over a wide range.

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